DATA STRUCTURES

Doubly Linked List

#Lockdown continues ….

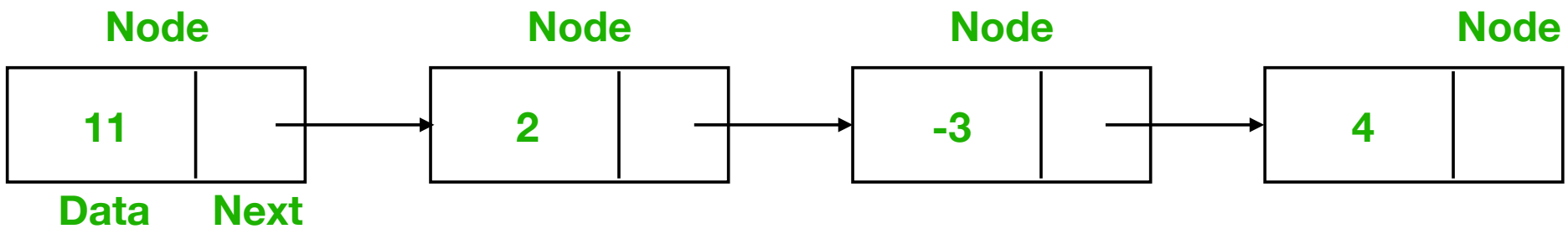
#Stay At Home

(By Prince Agarwal)

[" Hello World "]

DATA STRUCTURES

- **Doubly Linked List**
  - **Basically, It contains an extra pointer, typically called *previous pointer***
  - **Now , why we need this ?**

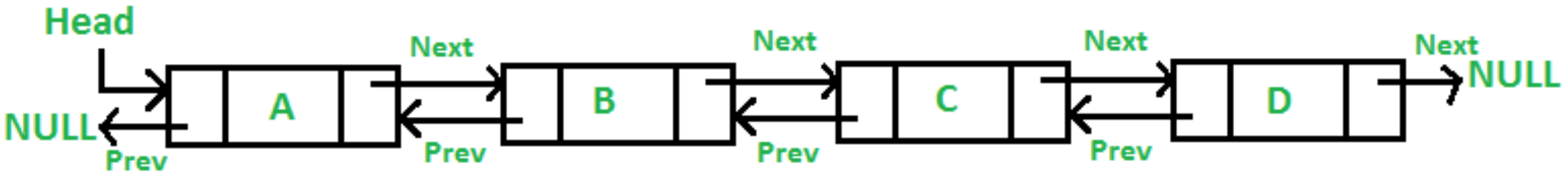



```
/* ----- Linked list Node  ------ */
struct node{
    int data;
    node *next;
};
```

Hello world

DATA STRUCTURES

- Doubly Linked List
  - Then we come up with some solution




```c
/* ----- Doubly Linked list Node  ------ */
struct node{
    int data;
    node *next;
    node *prev;
};
```

Hello world

DATA STRUCTURES

- **Doubly Linked List**
  - **Advantages of DLL (Doubly Linked List)**
    - **Node can be easily traversed in both direction**
    - **We can easily insert a node before a given node**
  - **Disadvantages of DLL (Doubly Linked List)**
    - **We have to maintain a extra pointer**
    - **All operations require an extra pointer previous to be maintained**

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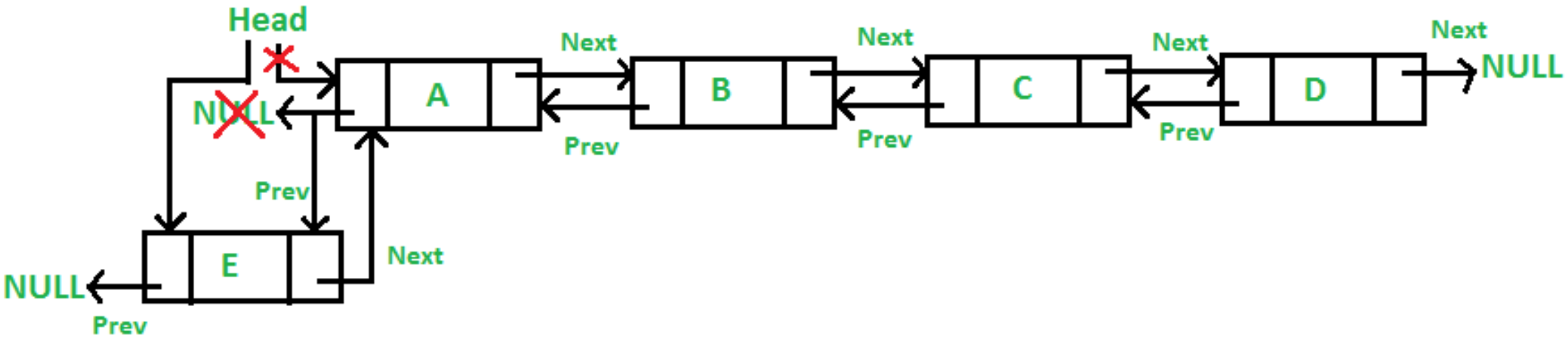
DATA STRUCTURES

Insertion in Doubly Linked List



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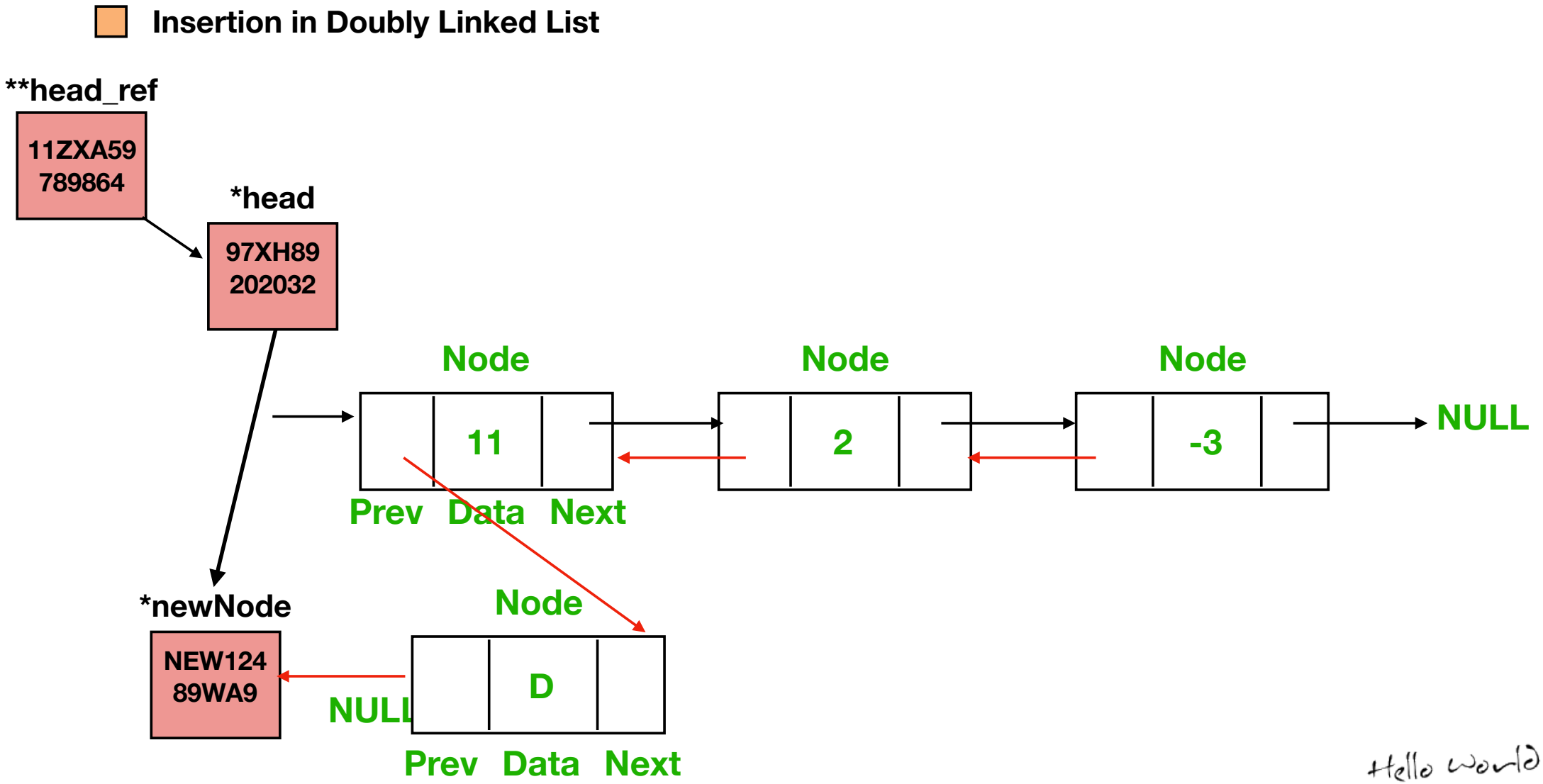
DATA STRUCTURES



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- Prince Agarwal

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